Name:

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Geometry, Period

Due Date: Thu, 18 Sep 2014

**Geometry**

**Homework**



**Failure to show work and write in complete sentences will result in a LaSalle. Answers should be boxed.**

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| Use the number line below to answer questions 1 – 4. | |
| 1. What is the distance, in coordinate units, between points *A* and *B*? | 2. What is the distance, in coordinate units, between points *B* and *E*? |
| 3. How much longer is *AD* than *BE*? | 4. How much longer is *CD* than *DE*? |
| Use the description of a number line below to answer questions 5 – 6. Sketch the number line below before answering the questions.  *On a number line, point W is located at 3, X is located at –5, Y is located at –16, and Z is located at 11.* | |
| 5. What is the distance, in coordinate units, between points *W* and *Z*? | 6. What is the distance, in coordinate units, between points *Y* and *Z*? |
| 7. How much longer is *WY* than *XZ*? | 8. How much longer is *YZ* than *WX*? |

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| 9a) Determine the slope of the line: \_\_\_\_    b) What is the y-intercept?  c) What is the x-intercept? | 10) Determine the slope of the line: \_\_\_\_ |
| 11a) Which line has the smallest negative slope?  A  B  C  D  E  b) Which line has the biggest **negative** slope?  c) What is the slope of line B? | 12) Sketch the graph of a line that crosses through the point (0, 0) and has a slope of . |
| 13) You walk from home to school, a distance of 1 mile, at a constant rate in 10 minutes.  Plot the scenario on the graph below:  Miles  From  Home    Time (min) | 14) How many lines have a positive slope?  b) How many lines have a negative slope?  c) How many lines have a slope of zero?  d) How many lines have an undefined slope? |
| 15) **Explain.** How do you find the slope of a line given two ordered pairs? Create two ordered pairs, and write out the process with which you would find the slope of the line that connects the two points. | |